



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Gero Baese et al.  
Appl. No.: 09/963,981  
Conf. No.: 3320  
Filed: September 26, 2001  
Title: RADIO TRANSMISSION OF DATA REPRESENTING TELEVISION  
PROGRAMS  
Art Unit: 2623  
Examiner: Michael P. Van Handel  
Docket No.: 112740-300

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUBMISSION OF CERTIFIED COPY OF TRANSLATION OF PRIORITY  
DOCUMENTS**

Sir:

In accordance with the Examiner's request, enclosed please find a Certified copy of the English Translation of priority document 101 03 291.9 and 100 47 608.2.

In light of the above, Applicant submits the present application is in condition for allowance. If any additional fees are due in connection with this application as a whole, the office is hereby authorized to deduct said fees from Deposit Account No. 02-1818.

Respectfully submitted,

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BY

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Dated: March 29, 2007



UNITED STATES PATENT AND TRADEMARK OFFICE

I, John Barton COATES BSc, CEng, MIET,  
translator to RWS Group Ltd, of Europa House, Marsham Way, Gerrards Cross,  
Buckinghamshire, England declare;

1. That I am a citizen of the United Kingdom of Great Britain and Northern Ireland.
2. That I am well acquainted with the German and English languages.
3. That the attached is, to the best of my knowledge and belief, a true translation into the English language of the accompanying copy of the specification filed with the application for a patent in Germany on January 25, 2001 under the number 101 03 291.9 and the official certificate attached hereto.
4. That I believe that all statements made herein of my own knowledge are true and that all statements made on information and belief are true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patent application in the United States of America or any patent issuing thereon.

A handwritten signature in black ink, appearing to be "John Barton Coates", written over a horizontal line.

For and on behalf of RWS Group Ltd

The 23rd day of March 2007



**FEDERAL REPUBLIC OF GERMANY**

[Eagle crest]

**Priority Certificate  
for the filing of a Patent Application**

**File Reference:** 101 03 291.9

**Filing date:** 25 January 2001

**Applicant/Proprietor:** Siemens Aktiengesellschaft,  
Munich/DE

**Title:** Method and apparatuses for radio transmission of data, representing the contents of a television program, from a transmitter to a mobile radio terminal.

**Priority:** 26.09.2000 DE 100 47 608.2

**IPC:** H 04 N, H 04 M

**The attached documents are a correct and accurate reproduction of the original submission for this Application.**

Munich, 27 September 2001

**German Patent and Trademark Office**

**The President**

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## Description

The invention relates to methods and apparatuses for radio transmission of data, representing the contents of a television program, from a transmitter to a mobile radio terminal.

Television is a widespread medium used intensively by large sections of the population. One of the major television medium items is, in particular, series, such as soap operas and sports programs. For regular television medium users, it is highly important not to miss regularly watched programs. Portable televisions and radios are known in order to solve this problem. However, the reception conditions when used while travelling are in some cases inadequate; in addition, the portability of the mobile appliances used at the reception end according to this solution is less than optimum. In addition, the prior art allows the user to record relevant programs on video, but this involves the disadvantage that there is a time delay, compared to the transmission time, before the program is seen, and this is unacceptable to the target user group, particularly for sporting events.

The object of the present invention is therefore to allow a user to receive the transmitted programs, in particular series, while travelling as easily, ergonomically and efficiently as possible, and with none of the time delays for transmission. The object is achieved by the subject matters of the independent claims.

The transmission according to the invention, of the text information relating to the contents of the program, in particular series, to be received, via a mobile radio terminal of the terminal user, allows an ergonomic, portable solution to the problem. Mobile radio terminals can be carried considerably more easily than mobile televisions, and there is no delay in providing the information to the terminal user as in the case

of a video recording. To this end, text information representing the contents of the program is transmitted from a device at the television transmitter end via a mobile radio network to a mobile radio terminal of a terminal user. The  
5 transmitted data may, in particular, contain only text, which allows simple, cost-effective transmission to a mobile radio terminal, in which case the transmitted content may, for example, correspond to that for a football match with a radio commentary.

10 In particular, preselection information relating to programs to be transmitted to the terminal user can advantageously be stored.

The transmission costs are preferably allocated to a mobile radio terminal user in the mobile radio network taking  
15 into account data that identifies said user. These costs, may, for example, be debited from the credit on the telephone card, or be included in the terminal user's telephone bill.

Further features and advantages of the invention are described in the claims and the following description of an  
20 exemplary embodiment as shown in the drawing, in which, as a single figure:

Figure 1 shows a block diagram of transmission according to the invention to a mobile radio terminal.

Figure 1 shows, schematically, a television  
25 organization 1 which is using a television transmission device 2 in a conventional manner to transmit a television program by radio 3 to a television terminal 4 for displaying television pictures.

According to the invention, an apparatus 5 is also  
30 provided in which trunk calls (for example from an editor on-line relating to the transmitted program (in the case of sports programs) or short information relating to the program entered in advance (in the case of series)) is stored. The information (in particular text) is transmitted via a mobile radio network  
35 6, 7, which is known per se, to a mobile radio terminal 8 of a user 9. The transmitted information may be, in particular,

alphanumeric information, which is either, for example, displayed continuously on-line on a display 10 on the terminal or, for example, is stored in the terminal 8 and is called up by the terminal user 9 pushing a button, etc.

5           The invention can be used for widely differing terminals, for example GSM, UMTS or other multimedia terminals. The data transmitted to the mobile radio terminal may be, for example, a radio play with a commentary, text or comments by a sports reporter transmitted in spoken form or alphanumerically  
10 and relating to a live event (football matches etc). At the mobile radio terminal end, the display or representation may be in the form of text and/or graphics and/or speech. Transmitted data relating to a television series may include, for example, a script for reading, videotext subtitles or results of a match  
15 (for example of a football match). For series, transmissions may also be in the form of photographic comic scripts with still pictures and speech bubbles to indicate dialogues, or with an audio output in terminals with an appropriate graphics/audio reproduction capability. Commentaries on a  
20 football match can be made in the form of text or audio. They may also use video to show goal opportunities in a football match on a terminal with appropriate video display capabilities.

          According to the invention, contents may either be  
25 processed as appropriate either before transmission in the case of a series, or in parallel (in the case of live events). The method may also be used for educational programs, lectures, or news programs etc.

          It is possible for a television transmitter 1, 5 to  
30 store information (for example series) about what is to be transmitted to a specific terminal user or terminal. For a series, for example, it is possible to provide for billing to be by subscription (for example DM 2/per month or DM 1 per transmission). A reminder of the start of a program can be  
35 provided, for example, by means of a short message (SMS) or some other text message. In this case, for example, it is

possible to ask the terminal user 9 whether he wants to see the program on the mobile radio terminal 8. If a positive input ("yes" etc.) is made on the terminal, said terminal (using mobile radio etc.) informs the device 5 at the transmitter end of this, from where transmission is started. The user 9 can be identified, for example, using his terminal 8. In this case, it is also possible to confirm that a user has, for example, a terminal, a Windows-TE-based organizer, a GPS modem or a headset. The information is then transmitted to him in a form which is suitable for his terminal. For example, he can receive information relating to a television series in the form of photographs which are transmitted using a screening method and in relation to which the original audio of the television series etc. is transmitted to his terminal. The costs for transmission can be billed, for example, via a user's telephone bill or by debiting an amount from a prepaid card, or by debiting from an account in some other way.

Patent claims

1. A method for radio transmission (6, 7) of data, representing the contents of a television program (6, 7), from  
5 a transmitter (1, 5) to a mobile radio terminal (8) of a terminal user (9), with the data comprising information representing the program.
2. The method as claimed in claim 1, characterized in that  
10 the data reproduce the program by text, in particular only by text.
3. The method as claimed in claim 1 or 2, characterized in that the data comprise video data representing the program.
4. A method as claimed in one of the preceding claims, characterized in that preselection information stored in a  
15 television transmitter (1) represents the television programs on which data representing the program are to be transmitted to a terminal user regularly, automatically or on request.
5. A method as claimed in one of the preceding claims, characterized in that data representing a television program  
20 are transmitted from a television transmitter (1, 5) to the mobile radio terminal (5) of the terminal user (9) in a form matched to the display options on the mobile radio terminal.
6. A method as claimed in one of the preceding claims, characterized in that the costs for data which is transmitted  
25 to a mobile radio terminal and represents a television program are billed automatically via a telephone bill for the terminal user (9).
7. An apparatus, in particular for carrying out the method as claimed in one of the preceding claims,  
30 having a memory (11) in which television programs which are to be transmitted regularly to a specific mobile radio terminal (10) are specified,  
having a memory (12) for data which at least partially represents a television program and is to be transmitted to a  
35 terminal user,



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having a device (5) for transmitting the data via a mobile radio network to a mobile radio terminal (9, 10).

Abstract

The invention relates to methods and apparatuses for radio transmission of data, representing the contents of a television program, from a transmitter to a mobile radio terminal.

The invention discloses apparatuses and methods for radio transmission of data, representing the contents of a television program, from a television transmitter to a mobile radio terminal 10 of a terminal user 9, with the data comprising information representing the program, for example, by means of text.

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